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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|-----------------|---------------------------------|-------------------------|-----------------------|-----------------|
| 10/067,780 | 02/08/2002 | Miguel Peeters | 1875.2480000 | 3445 |
| 26111 7. | 590 09/06/2006 | | EXAMINER | |
| STERNE, KE | SSLER, GOLDSTEIN | GHEBRETINSAE, TEMESGHEN | | |
| | ORK AVENUE, N.W. N, DC 20005 | | ART UNIT PAPER NUMBER | |
| Wildimic | 11, 20 20003 | | 2611 | |

DATE MAILED: 09/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | | | | |
|---|---|---|---|------|--|--|--|--|
| | | 10/067,780 | PEETERS, MIGUEL | | | | | |
| Office Action S | Summary | Examiner | Art Unit | | | | | |
| | | Temesghen Ghebretinsae | 2611 | | | | | |
| The MAILING DATE of Period for Reply | f this communication app | ears on the cover sheet with th | e correspondence address | | | | | |
| WHICHEVER IS LONGER, - Extensions of time may be available after SIX (6) MONTHS from the maili - If NO period for reply is specified about Failure to reply within the set or extension | FROM THE MAILING DA under the provisions of 37 CFR 1.13 ing date of this communication. we, the maximum statutory period valued period for reply will, by statute than three months after the mailing | Y IS SET TO EXPIRE 3 MONT ATE OF THIS COMMUNICATI 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS fr , cause the application to become ABANDO g date of this communication, even if timely | ON. It timely filed om the mailing date of this communicative NED (35 U.S.C. § 133). | | | | | |
| Status | | | | | | | | |
| 1) Responsive to commu | unication(s) filed on 24 A | <u>oril 2006</u> . | | | | | | |
| 2a) ☐ This action is FINAL. | 2b)⊠ This | action is non-final. | | | | | | |
| 3) Since this application | is in condition for allowar | nce except for formal matters, | prosecution as to the merits | s is | | | | |
| closed in accordance | with the practice under E | Ex parte Quayle, 1935 C.D. 11, | 453 O.G. 213. | | | | | |
| Disposition of Claims | | | | | | | | |
| 4)⊠ Claim(s) <u>17-31</u> is/are | pending in the application | ٦. | | | | | | |
| 4a) Of the above claim | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | | |
| 5) Claim(s) is/are | 5) Claim(s) is/are allowed. | | | | | | | |
| 6)⊠ Claim(s) <u>17-19 and 22</u> | 2-31 is/are rejected. | | | | | | | |
| 7)⊠ Claim(s) <u>20-21</u> is/are | ☑ Claim(s) <u>20-21</u> is/are objected to. | | | | | | | |
| 8) Claim(s) are su | bject to restriction and/o | r election requirement. | | | | | | |
| Application Papers | | | | | | | | |
| 9) ☐ The specification is ob | jected to by the Examine | r. | | | | | | |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | | |
| • | * * | ion is required if the drawing(s) is | • | • • | | | | |
| 11) The oath or declaration | n is objected to by the Ex | aminer. Note the attached Offi | ce Action or form PTO-152 | 2. | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | | | |
| 12) Acknowledgment is ma a) All b) Some * c | | priority under 35 U.S.C. § 119 | (a)-(d) or (f). | | | | | |
| Certified copies | 1. Certified copies of the priority documents have been received. | | | | | | | |
| <u> </u> | 2. Certified copies of the priority documents have been received in Application No | | | | | | | |
| • | 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | | | |
| • • | the International Bureau | | | | | | | |
| * See the attached detail | ed Office action for a list | of the certified copies not rece | vea. | | | | | |
| Attachment(s) | | | | | | | | |
| 1) Notice of References Cited (PTO | | 4) Interview Summa | | | | | | |
| 2) Notice of Draftsperson's Patent D 3) Information Disclosure Statement | | Paper No(s)/Mail 5) Notice of Informa | | | | | | |
| Paper No(s)/Mail Date 4/24/66 | (-, (· · - · - · - · · · · · · · · · · · · | 6) Other: | | | | | | |

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DETAILED ACTION

1. It would be of great assistance to the Office if all incoming papers pertaining to a filed application carried the following items:

- 1. Application number (checked for accuracy, including series code and serial no.).
- 2. Group art unit number (copied from most recent Office communication).
- 3. Filing date.
- 4. Name of the examiner who prepared the most recent Office action.
- 5. Title of invention.
- 6. Confirmation number (See MPEP § 503).

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/24/06 has been entered.

Response to Arguments

3. Applicant's arguments with respect to claims 1-16 have been considered but are moot in view of the new ground(s) of rejection.

Drawings

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: step 51; step 53; step 55; step 57 etc.. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid

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abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 6. Claims 25-29 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claims 25 and 29 as claimed now do not have support in the specification as originally filed (see fig.2 and paragraph {0022-0023}).

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

8. Claims 17-19,22,23-24,30-31 are rejected under 35 U.S.C. 102(e) as being anticipated by Betts (Us2001/0031011 A1).

Betts discloses a method, in tone generation module, for assigning bits in a plurality of frames to tones in multitone transmission, comprising: generating a set of unique tone order mapping sequence(208); and assigning bits in each frame to the plurality of tones according to one tone order mapping sequence in the set of tone order mapping sequence, where in each unique tone order mapping sequence is used once during the assignment cycle for the plurality of frames (see fig.4). The method is repeated after a complete assignment cycle using each unique tone order mapping sequence in the set of unique tone order mapping sequence has been completed.

Betts also discloses a constellation generator configured to generate a constellation points (210) and an inverse Fourier transform module configured to generate an output signal (212). See fig.2 and 4, paragraph {0050} and {0054} to {0058}.

Allowable Subject Matter

9. Claims 20-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Temesghen Ghebretinsae whose telephone number is 571-272-3017. The examiner can normally be reached on Monday-Friday from 8 to 6. The examiner can also be reached on alternate.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel, can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Temesghen Ghebretinsae

Primary Examiner

Art Unit 2611

T.Ghebretinsae.

9/1/06.